

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2001/0012310 A1 Igarashi

(43) Pub. Date:

Aug. 9, 2001

(54) GAS LASER DEVICE

(76) Inventor: Tatushi Igarashi, Oyama-shi (JP)

Correspondence Address: NIXON PEABODY, LLP **8180 GREENSBORO DRIVE SUITE 800 MCLEAN, VA 22102 (US)**

(21) Appl. No.:

09/778,897

(22) Filed:

Feb. 8, 2001

(30)

Foreign Application Priority Data

(JP) 2000-030748 Feb. 8, 2000

Publication Classification

(51)	Int. Cl.7	

ABSTRACT (57)

There is provided an excimer laser device capable of producing a stable oscillation even at a high repetition rate of 4 kHz. This gas laser device is comprised of a laser chamber having laser gas filled therein; a pair of main discharge electrodes arranged in the laser chamber; a cross-flow fan for circulating the laser gas within the laser chamber at least between the main discharge electrodes; and a diameter of the cross-flow fan is 150 mm or less, its peripheral speed being 25.0 m/s or more.

